

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 59-218228

(43)Date of publication of application : 08.12.1984

(51)Int.Cl.

B21D 37/20

(21)Application number : 58-091123

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(22)Date of filing : 24.05.1983

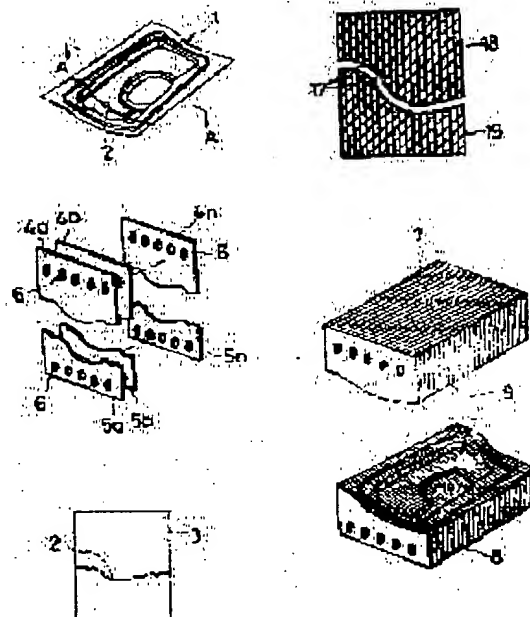
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(54) MANUFACTURE OF PRESS DIE

(57)Abstract:

PURPOSE: To form at a low cost a three-dimensional shape forming surface by converting a three-dimensional shape to a two-dimensional shape by many thin plates, and thereafter, combining them, when manufacturing a drawing press die having a forming surface of a three-dimensional shape.

CONSTITUTION: A press die having a three-dimensional shape forming surface 1 is subdivided by many cutting-plane lines 2, and the shapes of the respective cutting-plane lines 2 are developed to many thin steel plates 3. Subsequently, these many thin steel plates are bisected to the upper and lower parts along the cutting-plane line 2, many upper side steel plates 4a, 4bW4n and many lower side steel plates 5a, 5bW5n are formed, and plural bolt inserting holes 6 are made on both of them, respectively. When these many upper side steel plates 4aW4n and lower side steel plates 5aW5n are collected in a lump in accordance with an order, a punch member 7 by the upper side steel plate and a die member 8 by the lower side steel plate are obtained, and a three-dimensional shape forming surface 9 is formed. When this surface is brought to a final polishing finish, a punch 18 and a die 19 having a three-dimensional shape surface 17 of a prescribed shape are obtained.



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[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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